

Table Set 1

Shaft Parameters

	Shaft A	Shaft B	Shaft C
Diameter	40mm	40mm	40mm
Length	151.5mm (pulley input)	124mm	168mm (coupling output)
Rotation speed	2,800 rpm	1,200 rpm	404.82 rpm
Centerline distance from Shaft A	N/A	280mm	724mm

*Key Way - 12 x 8 (width x height) mm
Distance to pulley = 34mm

Gear Parameters

	Gear 1	Gear 2	Gear 3	Gear 4
Number of teeth, N	21	49	28	83
Face Width, bw	32mm	32mm	32mm	32mm
Gear module, m	4mm	4mm	4mm	4mm
Pressure Angle	14.5 deg	14.5 deg	14.5 deg	14.5 deg
Distance from Center of Left Bearing	35mm	35mm	71mm	71mm
Brinell Hardness	400 HB	200 HB	400 HB	200 HB

Table 2

Bearing Parameters

	Bearing Pair A	Bearing Pair B	Bearing Pair C
Bearing Number	6208	6208	6008
Interior Diameter, ID	40mm	40mm	40mm
Outside Diameter, OD	80mm	80mm	68mm
Width	18 mm	18mm	15mm
C/C0	30700N/19000N	30700N/19000N	16800N/11600N

Table 3

	Bearing Pair A	Bearing Pair B	Bearing Pair C
Expected Life	1,747.2 mil revs	748.8 mil revs	252.6 mil revs
Maintenance Notes	Replace every 5 years	Replace every 5 years	Replace every 5 years
	Shaft A	Shaft B	Shaft C
Shaft Safety Factors	1.105	1.118	1.310

	Gear 1	Gear 2	Gear 3	Gear 4
Tooth Bending Stress Safety Factor	2.948	1.747	2.066	1.180
Contact Stress Safety Factor	1.221	1.049	1.217	1.195